

Anna and Leon experiment *with water and air*

Water and air – really strong stuff!

Children make keen and observant researchers. They observe their environment very accurately, make assumptions and wish to check those assumptions on their own.

Here they are given a set of materials with which they can learn all about the phenomena surrounding water and air.

More than 30 exciting experiments allow the children to

discover that air and water have many characteristics and are much stronger than one thinks! They will find out for example that air can lift a body or water can power wheels.

The knowledge they have gained will awaken and encourage their interest in natural sciences.



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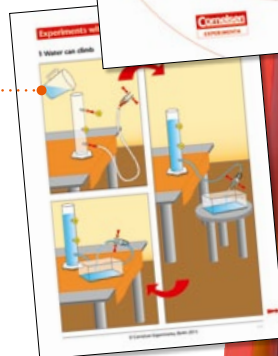
Manual

- All the experiments are carefully explained along with the scientific background.
- Short stories from everyday life involving Anna and Leon provide an introduction to the topics.



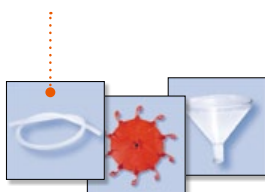
Instruction cards

- Allow children to learn from pictures how to do the experiments themselves.



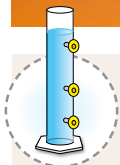
Material cards

- With the help of the cards, children can learn about the resources in the boxes and what they are called.



85021

Water can transmit power



Experiments from the manual
'Anna and Leon experiment
with water and air':

- Water can climb
- Water creates force
- Water can transmit power
- Water knows the level
- Water can squirt far
- Water can drive wheels
- You can see and feel air
- Air can open doors
- Air can carry people
- Air can stick things together
- Air can drive cars
- Air can lift up bodies
- Wind can generate power

Air can drive cars



*Air can
open doors*



*Air can stick things
together*



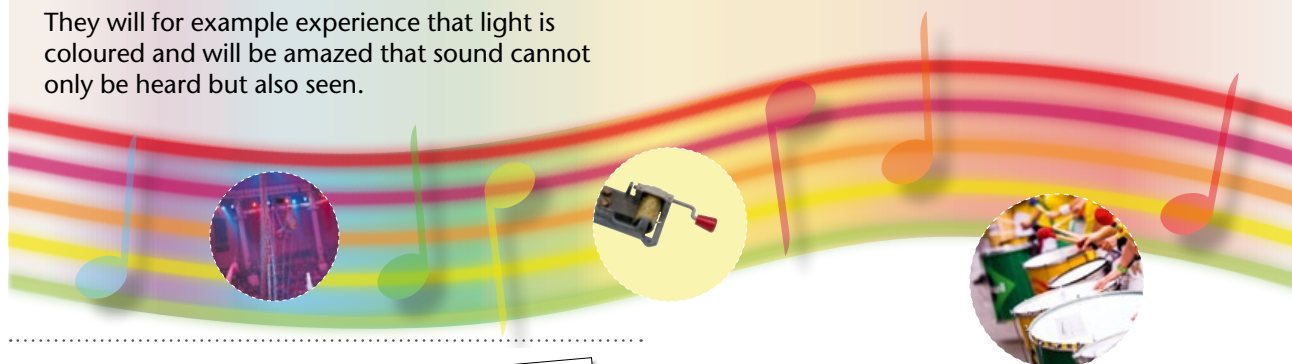
Anna and Leon experiment *with light and sound*

Light and sound – that's interesting!

This is a set of materials with which children can learn all about the phenomena surrounding light and sound.

They will for example experience that light is coloured and will be amazed that sound cannot only be heard but also seen.

The children will be interested to explore the phenomena. The easily to understand, robust materials in the box will help and encourage them.



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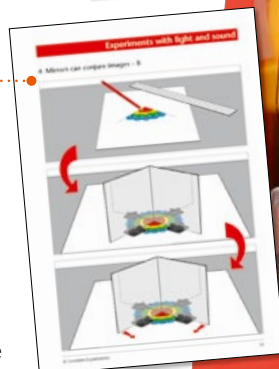
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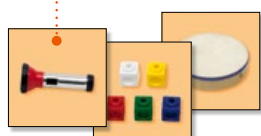
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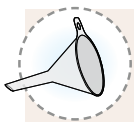
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85022

Mirrors and magical pictures



Experiments from the manual
'Anna and Leon experiment
with light and sound':

- Light beams travel straight
- Light makes shade
- Diverting light
- Mirrors and magical pictures
- Behind the mirror
- Refraction of light
- Make small things look big
- Light is colourful
- Colours of the sky
- Blending colours
- High and low tones
- Sounds all around
- Vibrations create sounds
- Sounds can be heard and seen
- Transporting sound

High and low tones



Refraction of light



Colours of the sky



Anna and Leon experiment *in nature and environment*

On the trail of nature

The topics of nature and environment are among the most important in pre-school life. The 'Nature and environment' box contains over 30 exciting experiments to enthuse children into thinking about their environment.

They illustrate the interaction between plants, animals, people and non-living aspects of nature. Children experience that it is important to protect the environment and that they too have the opportunity to do so.

Trips can be taken to observe nature and children can simultaneously be given research tasks such as collecting plants, stones or animals for subsequent investigation. They can keep the results of this research in their own files, take pictures of what they find or make a collection. All the results can be exhibited in the kindergarten.



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85023



Plants grow from seeds



Experiments from the manual
'Anna and Leon experiment in nature and environment':

- Plants grow from seeds
- Plants grow towards the light
- Plants need a clean environment
- Different plants grow differently
- Plants have different body parts
- Life under our feet
- Animals live everywhere
- The ground stores our water
- The many things beneath our feet
- Wind and weather are important
- Nature is a cycle
- Different habitats for different creatures
- How the ground is made
- How's the weather?
- How can we promote plants?



Plants grow in different ways



Plants grow towards the light



The many things beneath our feet!

Anna and Leon experiment *with lever, pulley and magnet*

Lever, pulley and magnet – there is something moving!

This kit revolves around the forces which children come across in their daily lives. They will be surprised to discover where a lever is hidden and where a pulley turns round forces. Especially attractive for children are the effects of magnetic force.

With the materials they can detect the forces of lever, pulley and magnet.

Exciting, curricula-based experiments will enable the children to explore phenomena in environment and technics. Their interest in natural sciences will be awakened and encouraged.

The experiments are fail-safe and easy to reproduce. The robust materials are compactly stowed in a plastic tray with lid.



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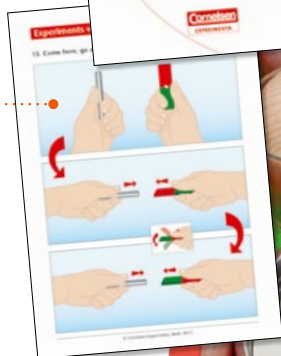
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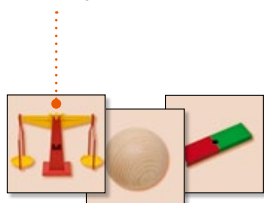
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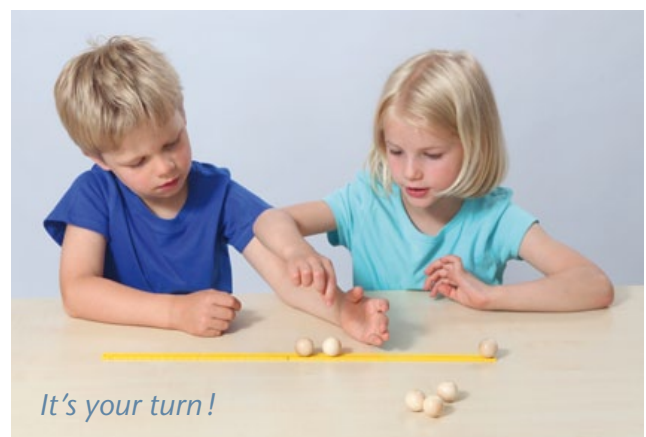


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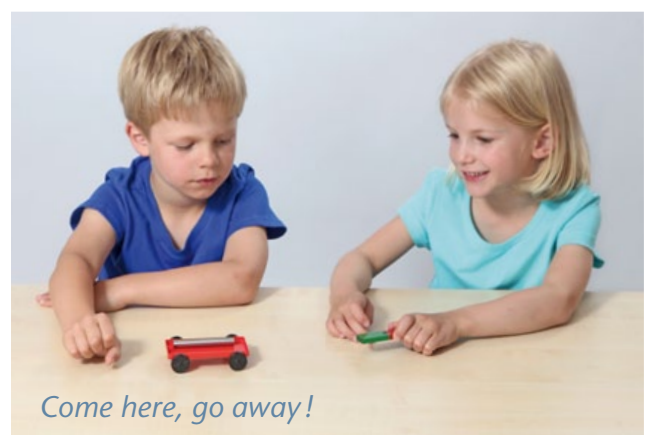


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Experiments from the manual 'Anna and Leon experiment with lever, pulley and magnet':

- Everything has its weight
- At equilibrium
- What is heavier?
- A lever can help
- Up and down on the seesaw
- Make it easier with a pulley
- Everything is spinning around
- Who is pulling the brake?
- I want to stay this way!
- It's your turn!
- Who is pulling me?
- Quite elastic!
- Magnetic force
- Quite strong such a magnet!
- Come here, go away!



Anna and Leon experiment *with electricity*

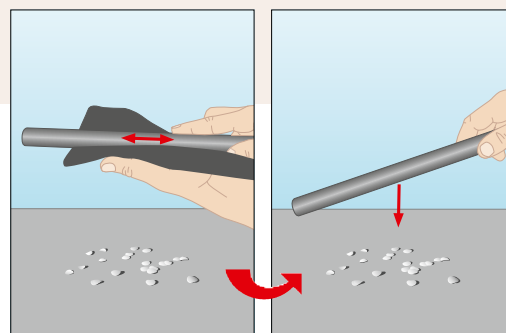
Electricity – really fascinating!

Electricity is very important and children come up with electricity in nearly all areas of life.

Playfully the children will experience how electrostatic charging develops and which effects it can have. The children learn how an electrical circuit is assembled and which different connections exist.

They can try which materials conduct electricity and which materials can be used as insulators.

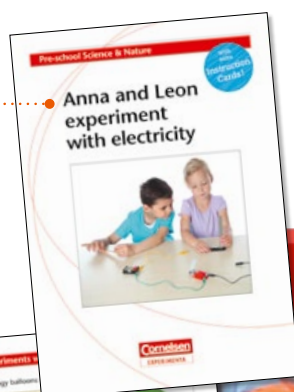
The children can find out how a Morse telegraph or a simple alarm system is working.



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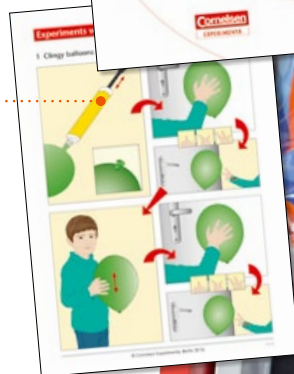
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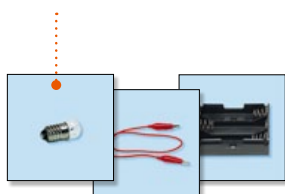
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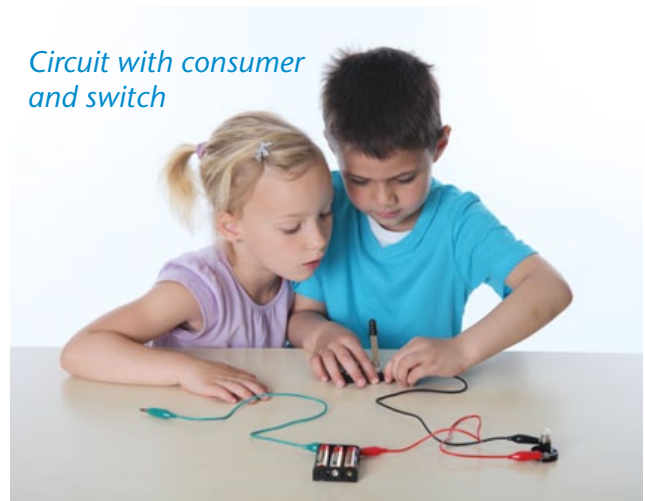
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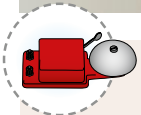
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Electrostatic charging



Circuit with consumer and switch



Experiments from the manual 'Anna and Leon experiment with electricity':

- Clingy balloons – electrostatic charging
- Really attracting – electrostatic charging
- Electrostatic charging
- Always in a circle – circuit with consumer
- Conductors and insulators
- Circuit with consumer and switch
- All in a series – series connection
- Parallel connection
- Sending messages in Morse with light and bell



Parallel connection

